"GE U PGT/PTO 25 APR 2005

PATENT COOPERATION TREA 10/532790

PCT

INTERNATIONAL-TYPE SEARCH REPORT

(PCT Article 15.5)

National application No. 0203220-9	Country or Office of	of filing	Applicant's or agent's s	file reference			
Filing date (day/month/year)	<u> </u>	(Earliest) Priority	Date (day/month/year)				
	•						
31 October 2002 Applicant			•				
St. Jude Medical AB			<u> </u>	•			
Date of request for international-type sea	arch	International-type	search request No.				
31 October 2002		SE 02/00999					
This international-type search report has to the applicant. This international-type search report co	onsists of a total of	6 sheets.		transmitted			
 Certain claims were found unsearchable (See Box I). Unity of invention is lacking (See Box II). The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international-type search was carried out on the basis of the sequence listing 							
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			e international applicatio	on,			
	but not accon	npanied by a statem beyond the disclosur	ent to the effect that it di- e in the international app	d not include plication as filed.			
tran	scribed by this Author	ority.	-				
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Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)		
This inte	ternational-type search report has not been established in respect of certain claims for the following reasons:		
1.	Claims No.: because they relate to subject matter not required to be searched by this Authority, namely:	•	
2.	Claims No.: because they relate to parts of the national application that do not comply with the prescribed requirements to such an extent that no meaningful international-type search can be carried out, specifically:		
i	to such an extent that no meaningth international-type search can be carried out, specifically.		
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)		
This Inte	ernational Searching Authority found multiple inventions in this application, as follows:		,
see 1	next page	•	
		• .	
1.	As all required additional search fees were timely paid by the applicant, this international-type search report covers all searchable claims.		
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.		
3.	As only some of the required additional search fees were timely paid by the applicant, this international-type search report covers only those claims for which fees were paid, specifically claims No.:		
			•
		•	
4.	No required additional search fees were timely paid by the applicant. Consequently, this international-type search report is restricted to the invention first mentioned in the claims, it is covered by claims No.:		
	1-13,15	-	
	'' ·		
Remark	on Protest		
	1. 1. No protest accompanied the payment of additional search fees.	٠	

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

The requisite unity of invention (Rule 13.1 PCT) does not exist inasmuch as a technical relationship involving one or more of the same or corresponding special technical features in the sense of Rule 13.2 PCT does not exist between the subject-matter of the following groups of dependent claims:

1. Claims: 1-13,15

A motion sensor for measuring a patient's activity level, comprising a fluid comprising at least one anisotropic fluid.

2. Claim 14

An Electrically detectable anisotropic fluid comprising a liquid crystalline polymer as the anisotropic fluid, which LCP is covalently bound to an iron-oxide nanoparticle.

Prior art has been defined as: Document D1: US5755741 A

First invention:

From a comparison of claims 1 and 15 and the prior art the following technical features can be seen to make a contribution over the prior art (Special technical features, Rules 30(2) EPC):

Claim 1 and 15:

A motion sensor characterised by that the fluid comprises at least one anisotropic molecule, the anisotropic properties of which are changed in relation to the motion of a fluid, whereby the state of the anisotropic is detectable by electrodes.

From these technical features, the objective problem to be solved is how to construct a non-mechanical motion sensor, which is possible to minimise.

Second invention:

From a comparison of claims 1 and 15 and the prior art the following technical features can be seen to make a contribution over the prior art (Special technical features, Rules 30(2) EPC):

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

Claim 14:

An electrically detectable anisotropic fluid comprising a liquid crystalline polymer as the anisotropic fluid,

which LCP is covalently bound to an iron-oxide nanoparticle.

From these technical features, the objective problem to be solved is how to produce an electrically detectable anisotropic fluid.

A comparison of the objective problem 1 with objective problem 2, seen in the light of the description and the drawings of the present application, indicates that there is no technical correspondence between these problems; nor do they show any corresponding technical Technical Features the Special that effect, so invention 1 (claims 1 and 15), fail to demonstrate a correspondence with the Technical Features of invention 2 (claim 14), thus not satisfying Article 82 and Rule 30(2) EPC.

CLASSIFICATION OF SUBJECT MATTER

IPC7: A61B 5/11 // A61N 1/365, C09K 19/02
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A61B, G01P, G01C, A61N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, INSPEC, BIOSIS, MEDLIN

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Α	US 5233984 A (THOMPSON, D.L.), 10 August 1993 (10.08.93), column 2, line 43 - column 3, line 10, figure 2	1-13,15
	· · · · · · · · · · · · · · · · · · ·	:
. A	US 5755741 A (VOGEL, A.B.), 26 May 1998 (26.05.98), column 2, line 34 - line 56, figures 1, 2	1-13,15
		
A	US 5833713 A (MOBERG, S.B.), 10 November 1998 (10.11.98), abstract	1-13,15

ı	ΙXΙ	rurther	documents	are list	ed in	the co	onunuai	ton o	Box	C.
П		l								

See patent family annex.

- Special categories of cited documents:
- document defining the general state of the art which is not considered to be of particular relevance
- erlier document but published on or after the international filing date
- document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- document referring to an oral disclosure, use, exhibition or other means
- document published prior to the international filing date but later than the priority date claimed
- later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international-type search

Date of mailing of the international-type search report 2003 -06- 2 7

12 May 2003

Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM

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Form PCT/ISA/201 (second sheet) (March 1993)

INTERNATION TYPE SEARCH REPORT

Search request No. SE 02/00999

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	US 4869251 A (LEKHOLME, A. ET AL), 26 September 1989 (26.09.89), abstract	1-13,15
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INTERNATIONAL PE SEARCH REPORT Information on patent family members

02/06/03

Sea Frequest No. SE 02/00999

US	5233984	A 	10/08/93	AU WO	1647892 A 9217241 A	02/11/92 15/10/92
US	5755741	A	26/05/98	NONE		
US	5833713	Α	10/11/98	AT AU DE EP US WO	225201 T 7330794 A 69431469 D, 0669842 A, 5425750 A 9502431 A	
US	4869251	Α	26/09/89	DE EP JP JP JP	3770715 D 0254945 A, 2082791 C 7112493 B 63094165 A	00/00/00 B 03/02/88 23/08/96 06/12/95 25/04/88